



**CONTROL POINT TABLE**

CONTROL POINT NO.	NORTHING	EASTING	ELEVATION
1	646248.50	1207808.40	3289.12
2	648196.60	1207806.67	3290.26

**THRUST BLOCK TABLE**

FITTING	MIN. BEARING AREA (SF)	MIN. CONC. VOLUME (CY)
6"x6"x6" TEE	4	1/4
8"x8"x8" TEE	8	1/2

**RESTRAINT TABLE**

FITTING	RESTRAINED LENGTH (FT)
6" TO 8" INCREASER	17" LARGE SIDE

**QUANTITIES**

ITEM NO	DESCRIPTION OF ITEM	UNIT	QTY (EST)
1	MOBILIZATION	LS	1.00
2	INCIDENTAL WORK	LS	1.00
3	TRAFFIC CONTROL PLAN	LS	1.00
4	TRAFFIC CONTROL	LS	1.00
5	SAWING	LF	250.00
6	REMOVE ASPHALT PAVEMENT	SY	89.00
7	REMOVE CURB AND GUTTER	LF	113.00
8	REMOVE CONCRETE DRIVEWAY	SY	15.30
9	REMOVE SIDEWALK	SF	396.00
10	REMOVE CONCRETE PAV	SY	6.50
11	REMOVE TREE	EA	1.00
12	ABANDON CURB STOP AND BOX	EA	1.00
13	ABANDON WATER SERVICE LINE AT CORPORATION	EA	1.00
14	IMPORTED BACKFILL MATERIAL (TRENCH)	CY	75.00
15	TYPE 1 BEDDING MATERIAL	TON	25.00
16	TYPE 2 FOUNDATION MATERIAL	TON	25.00
17	6" PVC WATER MAIN	LF	2.00
18	6" PVC WATER MAIN	LF	374.00
19	1" COPPER WATER SERVICE LINE	LF	67.00
20	6" TAPPING SLEEVE AND VALVE WITH BOX	EA	1.00
21	6" TAPPING SLEEVE AND VALVE WITH BOX	EA	1.00
22	6"x6" REDUCER	EA	1.00
23	CONCRETE ENCASEMENT	EA	1.00
24	1" TAPPING SADDLE	EA	3.00
25	1" CURB STOP AND BOX	EA	3.00
26	CORROSION PROTECTION	LS	1.00
27	TRAVEL GRAVEL	TON	20.00
28	AGGREGATE BASE COURSE	TON	55.00
29	ASPHALT CONCRETE PATCH, CLASS G, TYPE 1	TON	30.00
30	CURB AND GUTTER	LF	89.00
31	CONCRETE DRIVEWAY, 6"	SY	15.30
32	CONCRETE FILLET, REINFORCED	SY	13.50
33	DETECTABLE WARNING PANEL	SF	50.00
34	CONCRETE SIDEWALK, 4"	SF	546.00
35	WATTLES	LF	50.00
36	INLET PROTECTION	EA	3.00
37	EROSION CONTROL PLAN	LS	1.00
38	EROSION AND WATER POLLUTION CONTROL	LS	1.00
39	SODDING AND FERTILIZING	SY	384.00
40	AASHTO T-180 SOIL TEST	EA	1.00
<b>TOTAL</b>			



**CITY OF RAPID CITY**  
 PUBLIC WORKS DEPARTMENT  
 ENGINEERING SERVICES



Scale: 1" = 20'  
 Designed By: \_\_\_\_\_ Drawn By: \_\_\_\_\_  
 Design Date: \_\_\_\_\_ Print Date: \_\_\_\_\_  
 Internal Job No: W08-1742  
 Surveyed By: \_\_\_\_\_ Survey Date: \_\_\_\_\_  
 Revisions: \_\_\_\_\_

**SIXTH STREET WATER MAIN**  
**FRANKLIN ST. TO SAINT CHARLES ST.**